

Ag. Waste Application and Excavated Ponds  
Potter County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AgA: Agar-----	85	Not limited		Very limited Deep to water	1.00
AgB: Agar-----	90	Not limited		Very limited Deep to water	1.00
AmA: Agar-----	60	Not limited		Very limited Deep to water	1.00
Mobridge-----	30	Not limited		Very limited Deep to water	1.00
AoA: Agar-----	60	Not limited		Very limited Deep to water	1.00
Mobridge-----	20	Not limited		Very limited Deep to water	1.00
Tetonka-----	15	Very limited		Somewhat limited	
		Restricted permeability	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00	Salty water	0.01
		Leaching	0.50		
		limitation			
BgE: Betts-----	50	Very limited		Very limited	
		Slope	1.00	Deep to water	1.00
		Restricted	0.30		
		permeability			
		Cobble content	0.04		
Gettys-----	30	Very limited		Very limited	
		Slope	1.00	Deep to water	1.00
		Restricted	0.30		
		permeability			

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		Rating class and limiting features	Value	Rating class and limiting features	Value
BkE: Betts-----	55	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Java-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Bo: Bon-----	85	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Bv: Bon-----	85	Very limited Flooding	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
CaA: Cavo-----	80	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Da: Davison-----	90	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
De: Degrey-----	85	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
DmA: Delmont-----	90	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
DsD: Delmont-----	55	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.30	Very limited Deep to water	1.00
Schamber-----	30	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 1.00 0.63 0.45	Very limited Deep to water	1.00
Du: Durrstein-----	85	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
EaA: Eakin-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
EpB: Eakin-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Peno-----	25	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
EpC: Eakin-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Peno-----	30	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
GeF: Gettys-----	85	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
GlA: Glenham-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GpB: Glenham-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GrA: Glenham-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GrB: Glenham-----	65	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HbA: Highmore-----	90	Not limited		Very limited Deep to water	1.00
HbB: Highmore-----	85	Not limited		Very limited Deep to water	1.00
HbC: Highmore-----	90	Not limited		Very limited Deep to water	1.00
HdA: Highmore-----	55	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Degrey-----	25	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00  1.00 0.40 0.01	Very limited Deep to water	1.00
HfA: Highmore-----	55	Not limited		Very limited Deep to water	1.00
Mobridge-----	30	Not limited		Very limited Deep to water	1.00
HgB: Highmore-----	55	Not limited		Very limited Deep to water	1.00
Peno-----	30	Somewhat limited Restricted permeability Salinity	0.89  0.01	Very limited Deep to water	1.00
HgC: Highmore-----	45	Not limited		Very limited Deep to water	1.00
Peno-----	35	Somewhat limited Restricted permeability Salinity	0.89  0.01	Very limited Deep to water	1.00
Ho: Hoven-----	80	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00  1.00 1.00 1.00 0.50	Somewhat limited Salty water  Slow refill  Cutbanks cave	0.50  0.30  0.10
Hu: Hurley-----	85	Very limited Restricted permeability Droughty Sodium content Salinity Depth to bedrock	1.00  1.00 1.00 0.50 0.42	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Hz: Hurley-----	55	Very limited Restricted permeability Droughty Sodium content Salinity Depth to bedrock	1.00 1.00 1.00 0.50 0.42	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	
JbC: Java-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Betts-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JgB: Java-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Glenham-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
JmE: Java-----	50	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Schamber-----	25	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Jr: Jerauld-----	75	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00  1.00 0.50 0.40	Very limited Deep to water	1.00
LoA: Lowry-----	85	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	90	Not limited		Very limited Deep to water	1.00
LoC: Lowry-----	80	Not limited		Very limited Deep to water	1.00
LpC: Lowry-----	60	Not limited		Very limited Deep to water	1.00
Peno-----	25	Somewhat limited Restricted permeability Salinity	0.89  0.01	Very limited Deep to water	1.00
LpD: Lowry-----	55	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Peno-----	30	Somewhat limited Restricted permeability Slope Salinity	0.89  0.63 0.01	Very limited Deep to water	1.00
Mo: Mobridge-----	85	Not limited		Very limited Deep to water	1.00
OaA: Oahe-----	98	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
OaB: Oahe-----	95	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
OdB: Oahe-----	60	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.30	Very limited Deep to water	1.00
OkF: Okaton-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
OpB: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.98 0.42 0.40 0.02	Very limited Deep to water	1.00
OpC: Opal-----	85	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation Sodium content	1.00 0.98 0.42 0.40 0.02	Very limited Deep to water	1.00



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		Rating class and limiting features	Value	Rating class and limiting features	Value
OsD: Opal-----	55	Very limited Restricted permeability Slope Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.98 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	30	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Pa: Orthents, Gravelly--	99	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
Pk: Plankinton-----	85	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
PrA: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00
PrB: Promise-----	90	Very limited Restricted permeability Runoff limitation Sodium content	1.00 0.40 0.02	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
RaA: Raber-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RaB: Raber-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RcA: Raber-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RcB: Raber-----	60	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Cavo-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
RgD: Raber-----	60	Somewhat limited Restricted permeability Slope	0.89 0.63	Very limited Deep to water	1.00
Gettys-----	30	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Schamber-----	5	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 1.00 0.63 0.45	Very limited Deep to water	1.00
RhC: Raber-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Peno-----	30	Somewhat limited Restricted permeability Salinity	0.89 0.01	Very limited Deep to water	1.00
Rn: Ranslo-----	85	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Rr: Ranslo-----	60	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
Durrstein-----	30	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Very limited Slow refill Salty water Cutbanks cave	1.00 0.50 0.10
RsA: Ree-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Rt: Regan-----	85	Very limited Depth to saturated zone Flooding	1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.43 0.10
Ranslo-----	4	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Runoff limitation	1.00 1.00 0.92 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01
SaF: Sansarc-----	80	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
ScF: Schamber-----	75	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
Te: Tetonka-----	80	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Wa: Walke-----	80	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
Wf: Wendte-----	85	Very limited Restricted permeability Flooding Runoff limitation	1.00 1.00 0.40	Very limited Slow refill Deep to water Cutbanks cave	1.00 0.90 0.10
Wo: Worthing-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01
Wp: Worthing-----	95	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

